Light efficiency:

30 Lumen/Watt

Light quality:

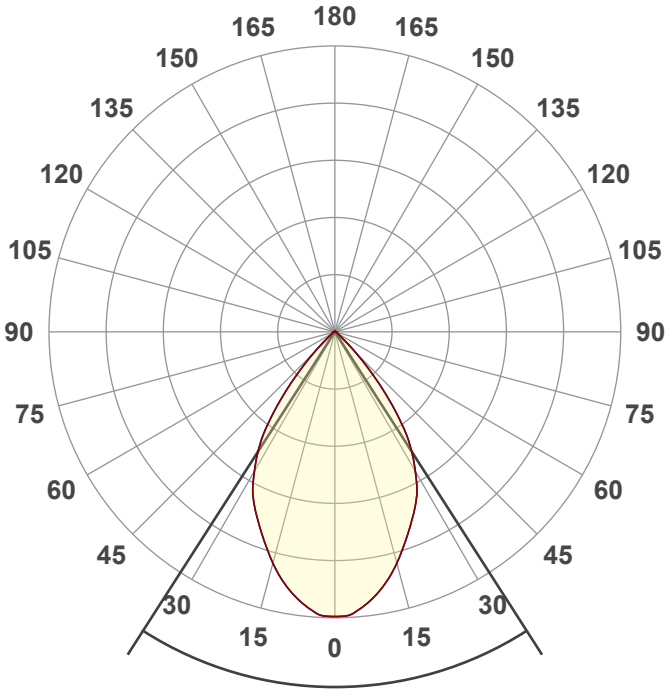
CRI: 91.2

Color temperature:

6276 K

Output: 3128 lm
Peak: 3069 cd

Power: 104.2 W
PF: 1.0



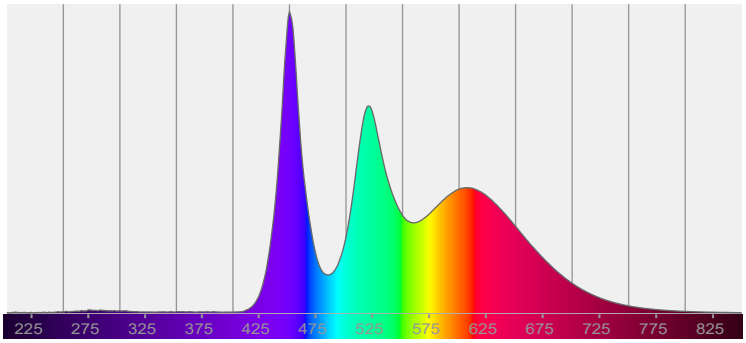
Beam angle 65.4°

Product name:
Encore DBX (Full on,6500K)
Item number:

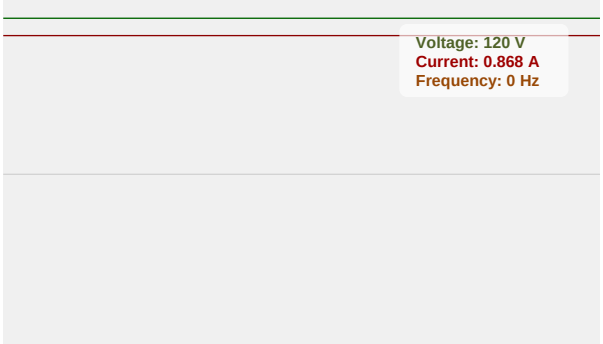
Date and time:
6/30/2026 2:06:37 PM

CIE 1931
x: 0.317
y: 0.328

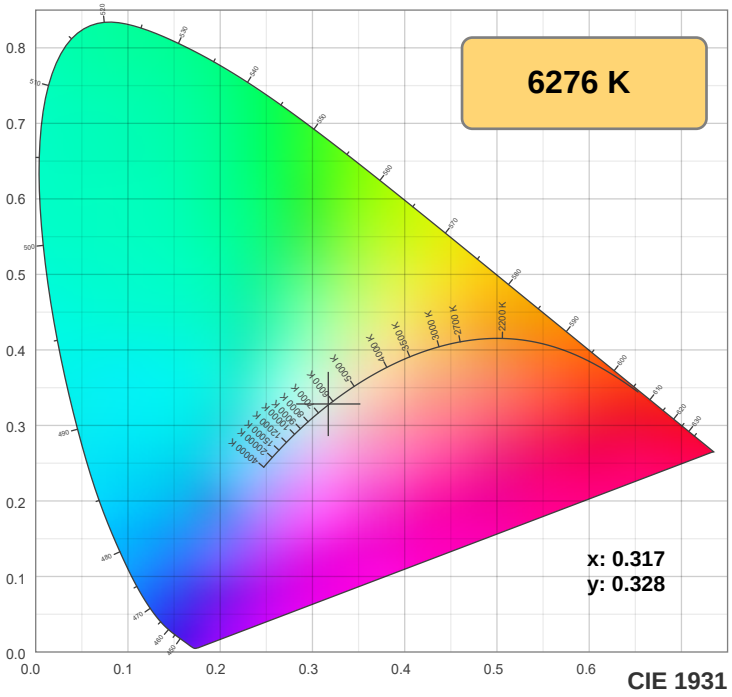
Spectra



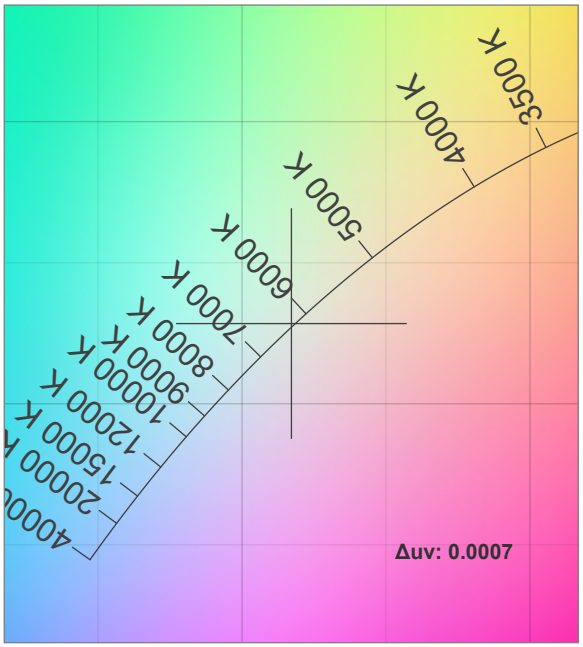
Power



Color details

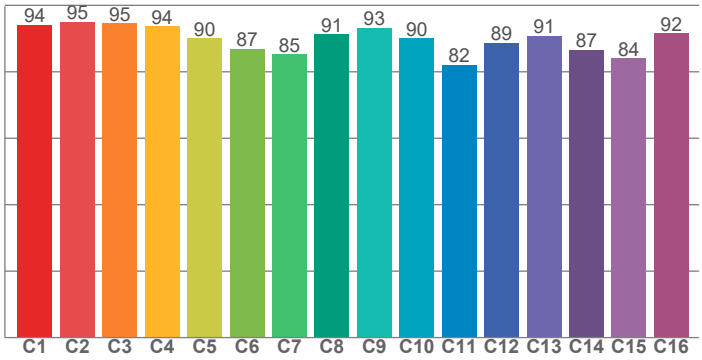


CIE 1931

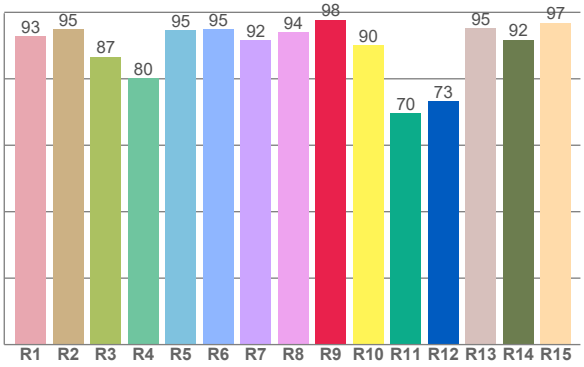


CIE 1931 ZOOM

TM-30: 90.0



CRI: 91.2 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.7	95.0	86.6	80.2	94.5	94.9	91.6	94.1	97.8	90.1	69.7	73.3	95.1	91.8	96.8

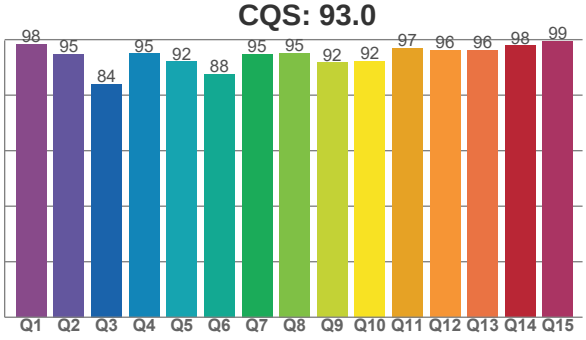
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94.1	95.0	94.6	93.6	90.0	87.0	85.3	91.3	93.2	90.1	82.1	88.6	90.9	86.6	84.0	91.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98.3	94.9	84.0	95.0	92.1	87.7	94.9	95.2	91.7	92.3	97.0	96.1	96.3	97.8	99.4

CQS: 93.0



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
6276 K	91.2	97.8	90.0	107.2	93.0	0.317	0.328	0.201	0.312	0.0007

TM-30 details

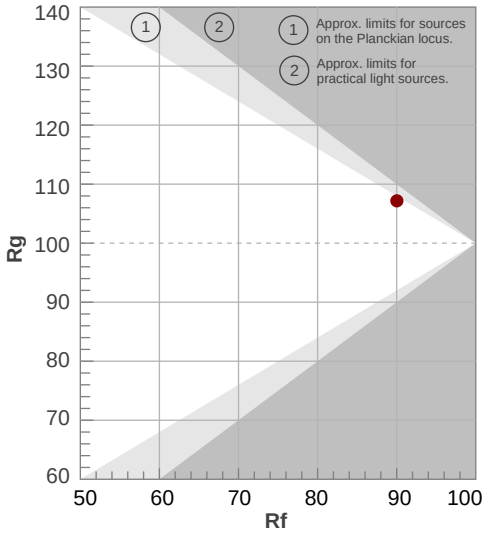
Rf 90.0

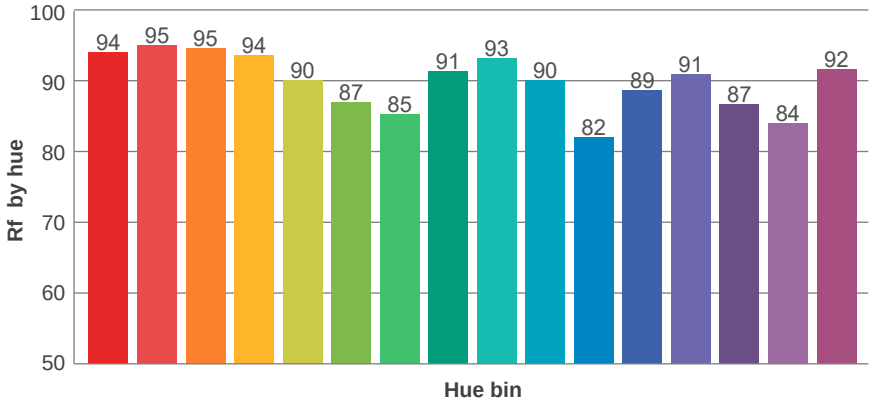
Fidelity index Rf

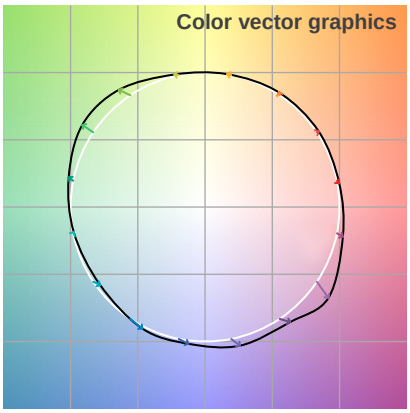
Rg 107.2

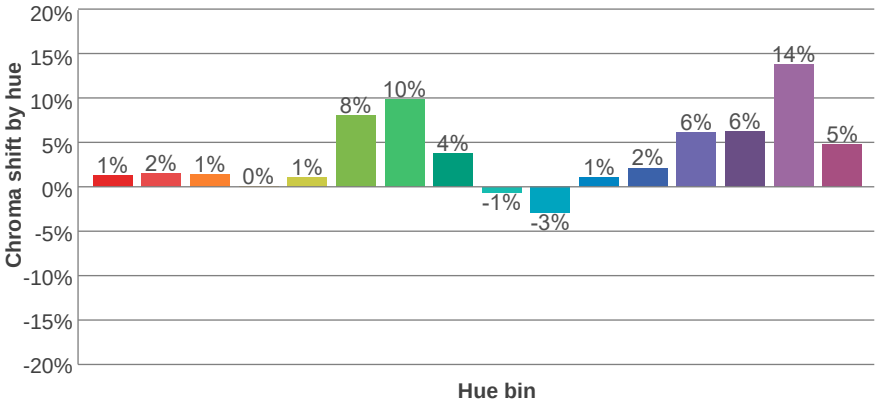
Gamut index Rg

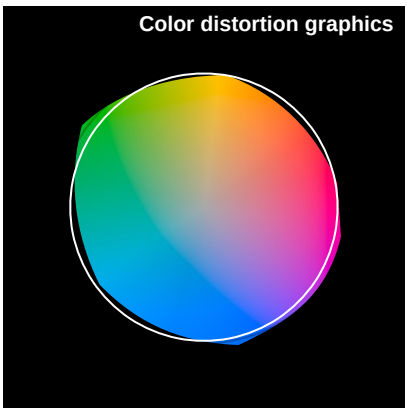
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-2%
2	95	2%	0%
3	95	1%	2%
4	94	0%	3%
5	90	1%	3%
6	87	8%	5%
7	85	10%	0%
8	91	4%	-2%
9	93	-1%	-1%
10	90	-3%	5%
11	82	1%	11%
12	89	2%	8%
13	91	6%	5%
14	87	6%	5%
15	84	14%	-5%
16	92	5%	-2%

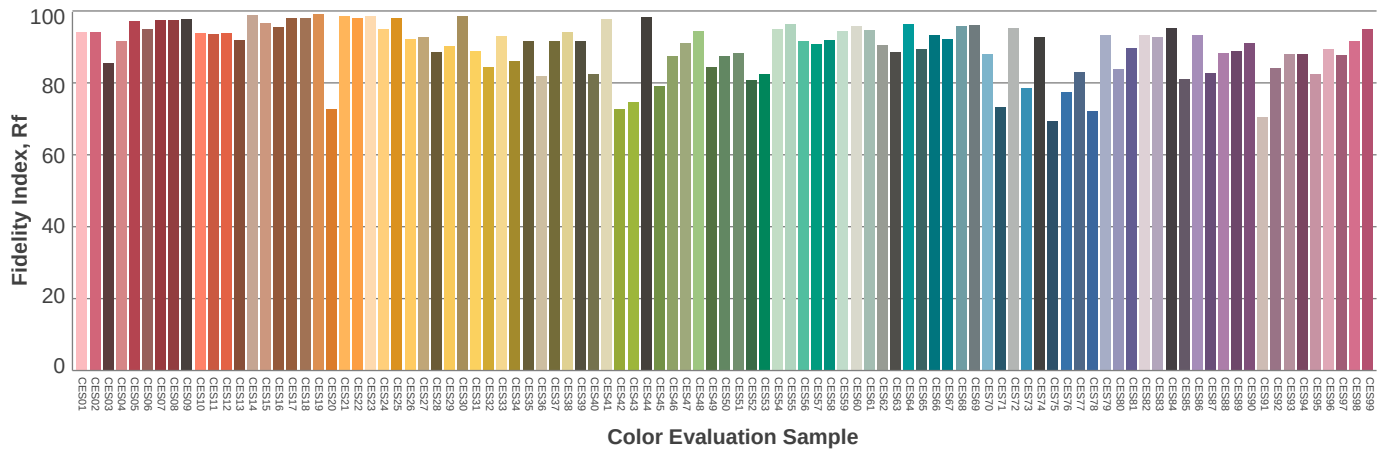




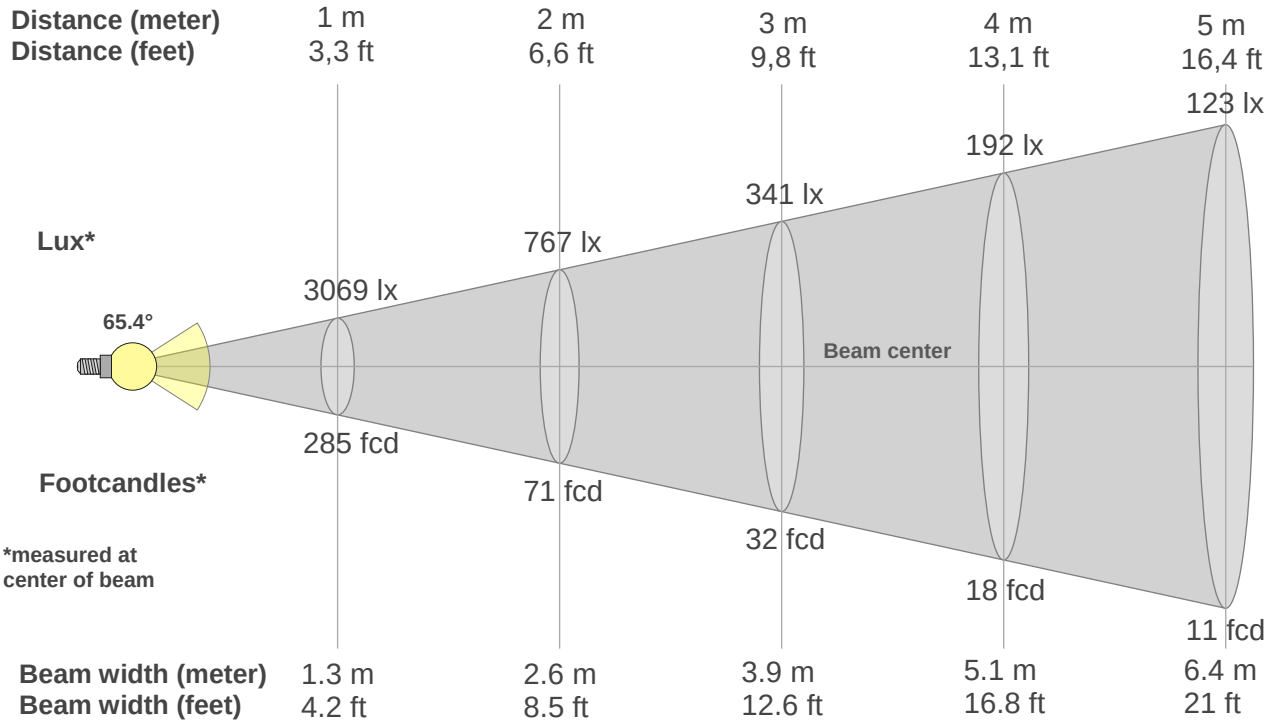








Beam details



Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
3069lx	767lx	341lx	192lx	123lx	85lx	63lx	48lx	38lx	31lx	25lx	21lx	18lx	16lx	14lx	12lx	11lx	9lx	9lx	8lx
285.1fcd	71.3fcd	31.7fcd	17.8fcd	11.4fcd	7.9fcd	5.8fcd	4.5fcd	3.5fcd	2.9fcd	2.4fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3069	3069	3033	2977	2909	2830	2739	2638	2531	2420	2313	2210	2110	2005	1884	1738	1589	1424	1228	1008
100%	100%	99%	97%	95%	92%	89%	86%	82%	79%	75%	72%	69%	65%	61%	57%	52%	46%	40%	33%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3069	3069	3033	2977	2909	2830	2739	2638	2531	2420	2313	2210	2110	2005	1884	1738	1589	1424	1228	1008
100%	100%	99%	97%	95%	92%	89%	86%	82%	79%	75%	72%	69%	65%	61%	57%	52%	46%	40%	33%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3069	3069	3033	2977	2909	2830	2739	2638	2531	2420	2313	2210	2110	2005	1884	1738	1589	1424	1228	1008
100%	100%	99%	97%	95%	92%	89%	86%	82%	79%	75%	72%	69%	65%	61%	57%	52%	46%	40%	33%

Intensities in 270° c-plane

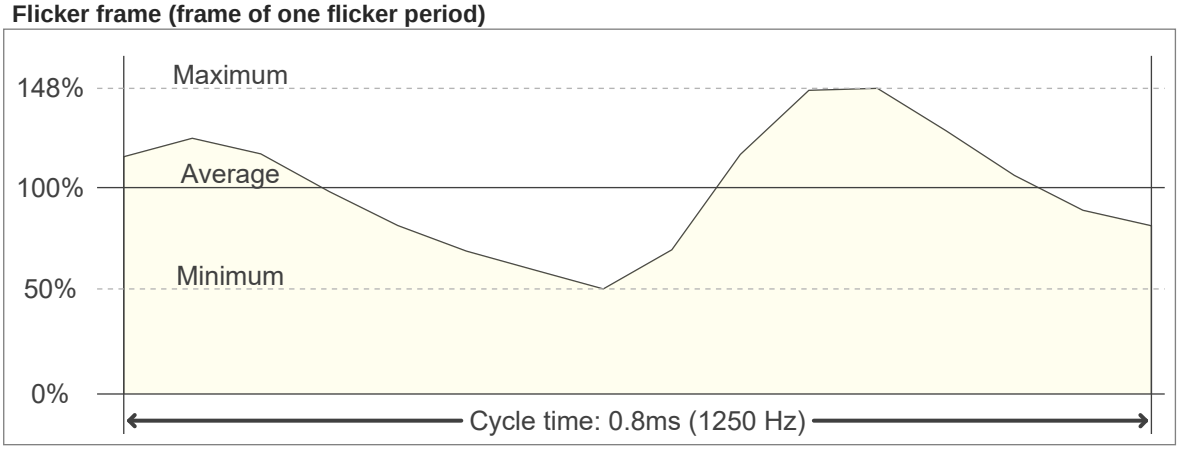
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3069	3069	3033	2977	2909	2830	2739	2638	2531	2420	2313	2210	2110	2005	1884	1738	1589	1424	1228	1008
100%	100%	99%	97%	95%	92%	89%	86%	82%	79%	75%	72%	69%	65%	61%	57%	52%	46%	40%	33%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
65.4°	**90.7°**	**103.9°**	**98.6%**	**94.3%**

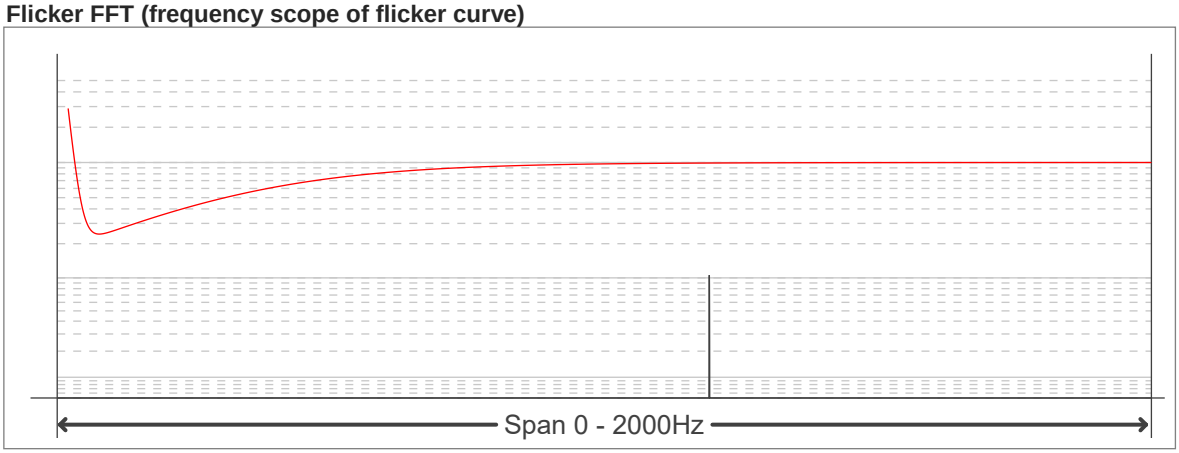
Flicker

Flicker curve (complete sampled flicker signal)

Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:		1250 Hz	
Flicker index:	0.12	JA8/10 40Hz	0.62 %
Flicker percentage:	50.57 %	JA8/10 90Hz	1.41 %
SVM: (Visual flicker)	0.21	JA8/10 200Hz	3.15 %
PstLM	0	JA8/10 400Hz	6.4 %
Mp	0.12	JA8/10 1000Hz	16.83 %

Flicker conditions:

Sample rate:	20000 samples/second